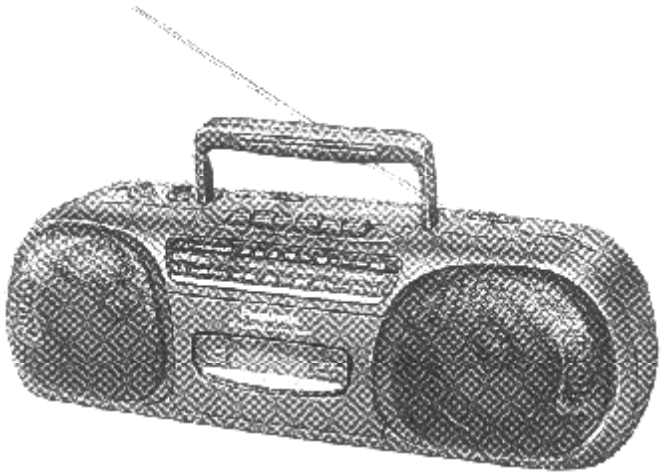
ORDER NO. MD9309142C1
A1

Service Manual

Stereo Radio Cassette Recorder

Radio Cassette

RX-FS430



Colour

(K) . . . . . Black Type

Area

Suffix for Model No.	Area	Colour
(P)	U.S.A	(K)
(PC)	Canada	

■ SPECIFICATIONS

General :

Power Requirement :	AC; 120V, 60Hz Battery; 9V, 6 UM-1 "D" size batteries
Power Consumption :	12 W (AC only)
Power Output :	7W (3.5 X 2) ... RMS (max.)
Speaker :	2 X Woofers; 10cm (4") (2.7Ω) 2 X Tweeters; 1.5cm ($^{9}/_{16}$")
Jacks :	Output; Headphone; (32Ω, Ø3.5)
Dimensions :	460 (W) x 149 (H) x149 (D) mm ($18^{1}/_{8}$" X $5^{7}/_{8}$" X $5^{7}/_{8}$")
Weight :	2.4 kg (5lb 5oz) without batteries.

Radio Section :

Radio Frequency Range :	FM; 88 ~ 108MHz AM; 525 ~ 1705kHz
Intermediate Frequency :	FM; 10.7MHz AM; 455kHz
Sensitivity :	FM : 12dB/50mW AM : 42.5dB/m/50mW

Tape Deck Section :

Frequency Response :	70 ~ 10,000Hz
Recording System :	AC bias, Magnet erase
Tape Speed :	4.8cm/s ($1^{7}/_{8}$ ips)
Track System :	4-track 2-channel stereo recording and playback

Notes :

1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

Panasonic®

NOTES:

- S1-1 ~ S1-2 : Band select switch in "FM STEREO" position. (S ... FM STEREO, F...FM, A...AM)
- S3-1 ~ S3-4 : Function select switch in "TAPE/OFF" position. (T...TAPE/OFF, R...RADIO)
- S4-1 ~ S4-6 : Record/Playback switch in "PLAYBACK" position. (R...RECORD, P...PLAYBACK)
- S6 : Motor switch in "OFF" position.
- S304 : AC/DC select switch in "DC" position.
- VR301-1 ~ VR301-2 : Volume control VR.
- VR302-1 ~ VR302-2 : Tone control VR.

- Battery Current :

Radio	28.9mA (FM, min volume)	28.5mA (AM, min volume)
	56.2mA (FM, max volume)	64.2mA (AM, max volume)
Tape	33.4mA (volume min)	
	82.6mA (volume max)	
Recording	31.4mA (mic, tape)	61.4mA (radio, tape)
	30.9mA (mic, w/o tape)	61.2mA (mic, w/o tape)

(Measurement condition:
Radio: FM 60 dB, 30%mod
AM 74 dB, 30%mod
Tape: 315 Hz, 0dB
Tone: centre)

- DC voltage measurements are taken with electronic voltmeter from negative terminal of battery.
- *L5 and *L6 are printed coils formed on the P.C.B and thus not found in the Replacement Parts List.

No mark ... Playback < > ... FM ( ) ... AM

- Important Safety Notice:
Component identified by ⚠ have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

- **This schematic diagram may be modified at anytime with the development of new technology.**

... FM SIGNAL LINE

... PLAYBACK SIGNAL

... RECORD SIGNAL LINE

... +B LINE

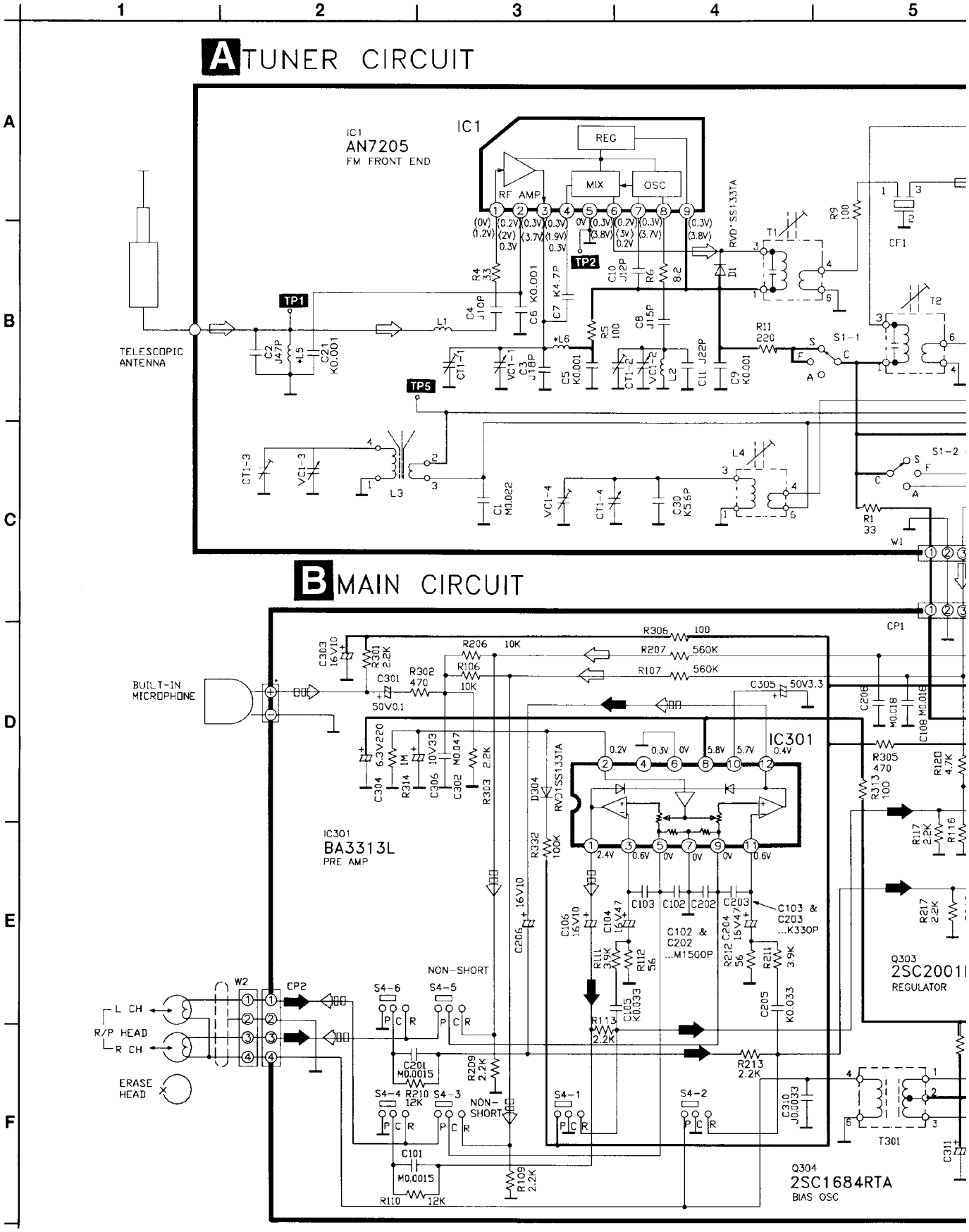
... PLAYBACK/FM SIGNAL LINE

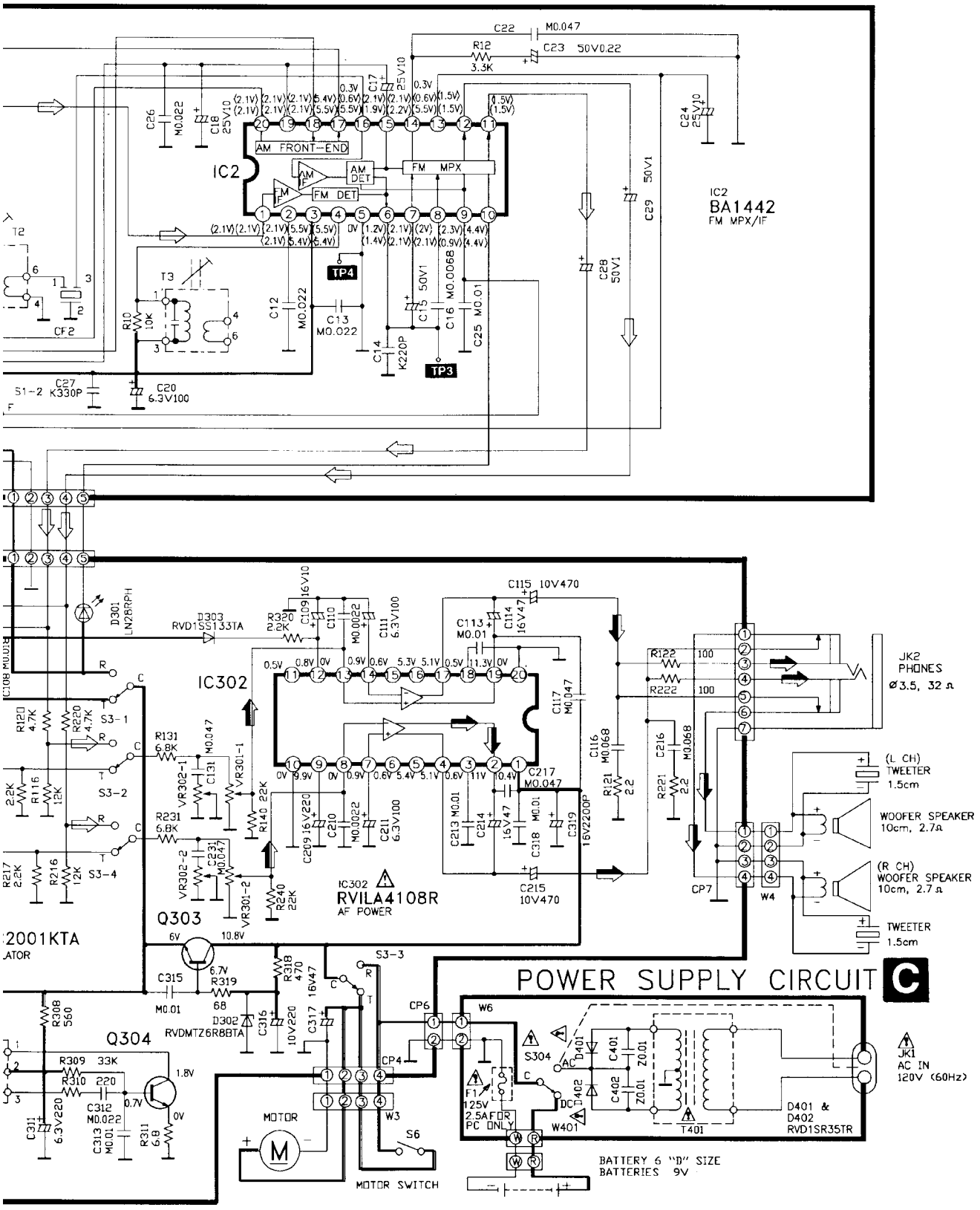
FUSE CAUTION

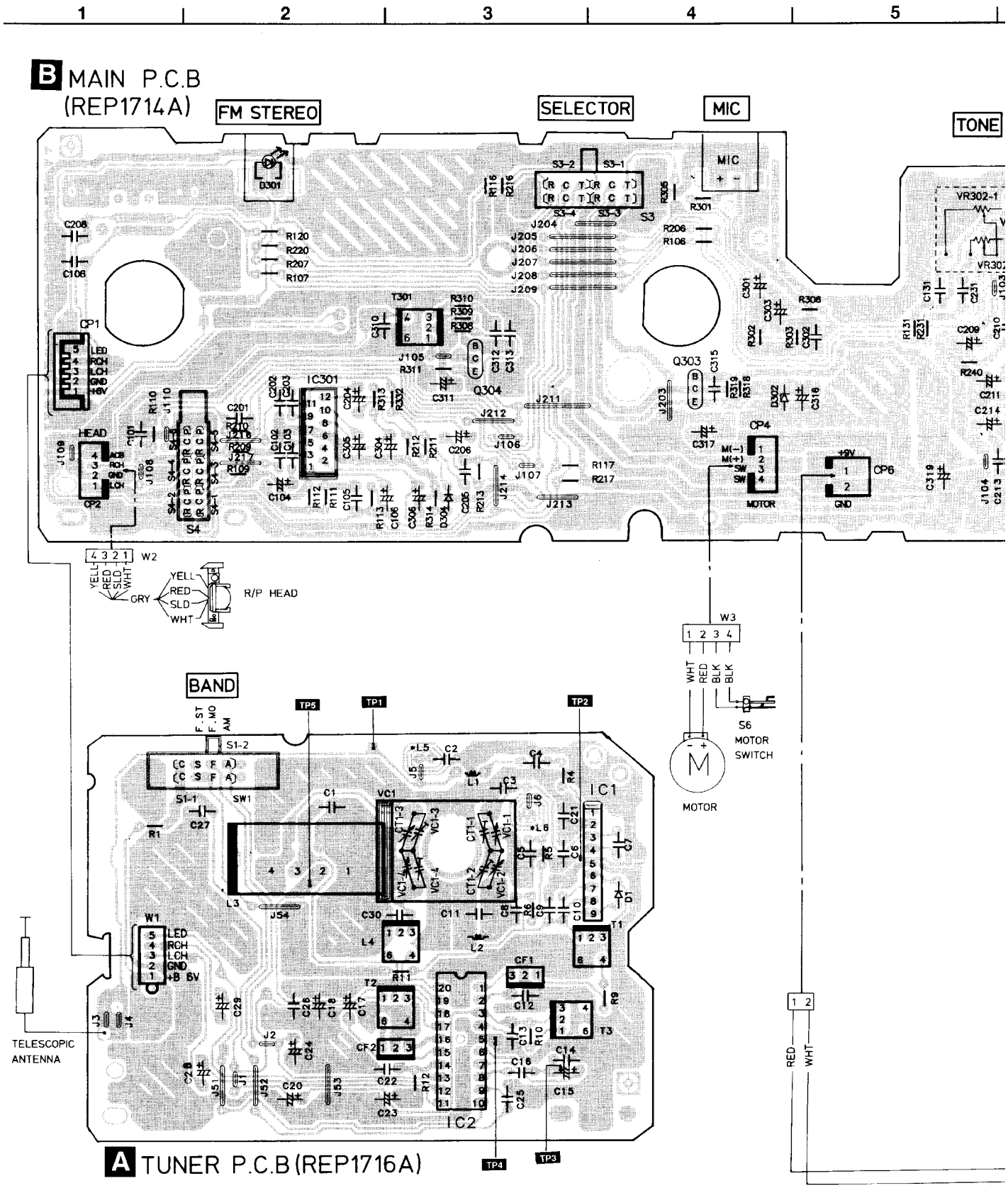
This symbol located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the rating adjacent to the symbol.

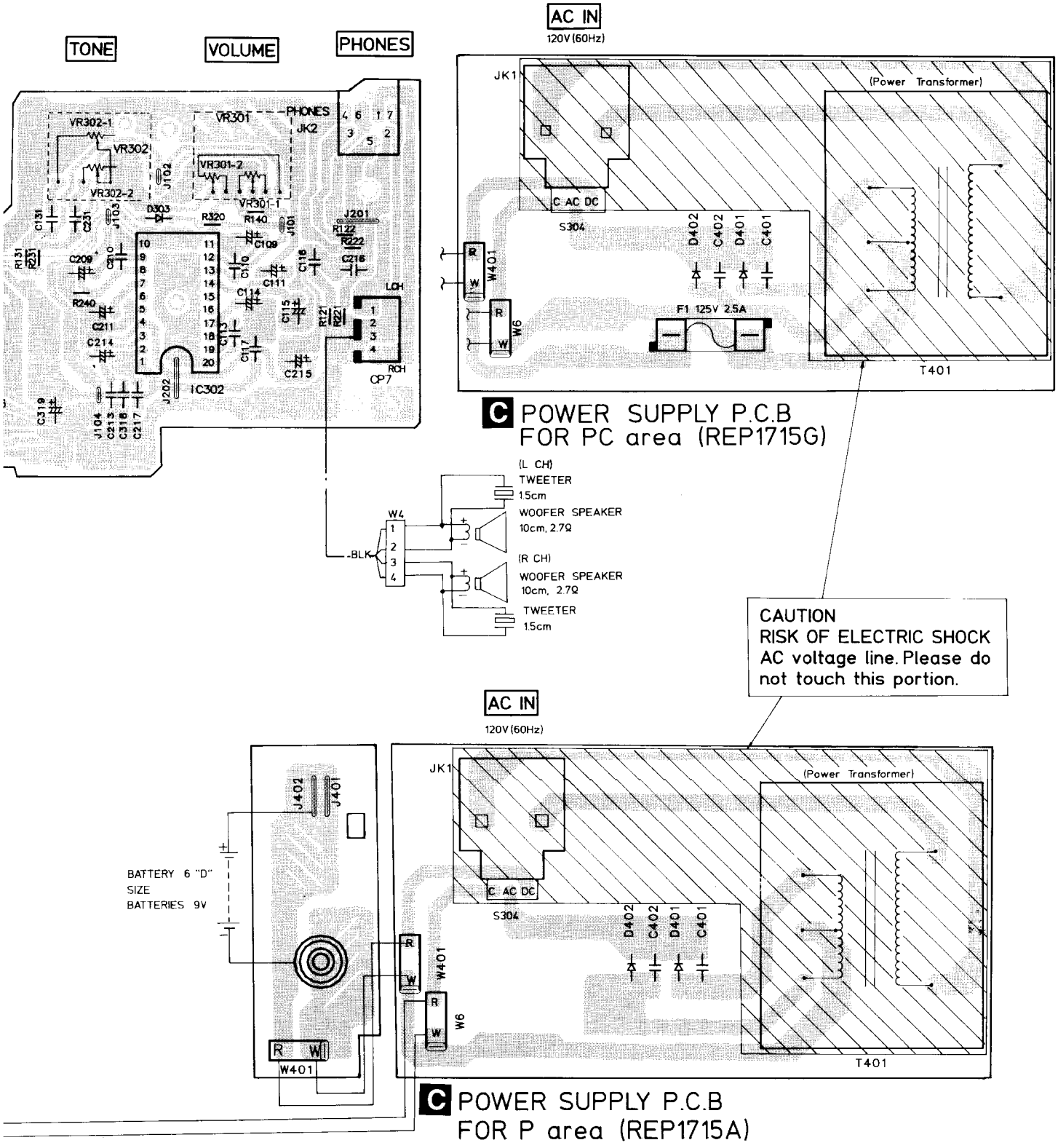
Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n'utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symbole est apposé.

SCHEMATIC DIAGRAM




IC2
BA1442
FM MPX/IF
AM FRONT-END
FM MPX
AM DET
FM DET
IC302
RVILA4108R
AF POWER
Q303
Q304
POWER SUPPLY CIRCUIT
JK2
PHONES
Ø3.5, 32 Ω
(L CH)
TWEETER
1.5cm
WOOFER SPEAKER
10cm, 2.7Ω
(R CH)
WOOFER SPEAKER
10cm, 2.7Ω
TWEETER
1.5cm
JK1
AC IN
120V (60Hz)
D401 &
D402
RVD1SR35TR
BATTERY 6 "D" SIZE
BATTERIES 9V
MOTOR
MOTOR SWITCH
TP3
TP4


1
2
3
4
5
B MAIN P.C.B
(REP1714A)
FM STEREO
SELECTOR
MIC
TONE
D301
S3-2
S3-1
S3-4
S3-3
S3
MIC
+ -
R301
R116
R216
R306
R206
R106
J204
J205
J206
J207
J208
J209
VR302-1
VR303
C208
C108
R120
R220
R207
R107
CP1
LED
RCH
LCH
GND
+8V
T301
R310
R309
R308
J105
R311
C310
C312
C313
C311
Q304
IC301
C202
C203
C204
R313
R312
C305
C304
R212
R211
C206
J212
J106
J211
J107
R117
R217
J213
J214
C104
R112
R111
C105
R113
C106
C306
R314
D304
C205
R213
J214
Q303
C315
R319
R318
C317
C316
C302
R302
R303
C303
C301
R308
C131
C231
R131
C209
C210
R240
C211
C214
C213
J104
C319
J103
CP4
M(-)
M(+)
SW
SW
MOTOR
+9V
GND
CP6
HEAD
CP2
J109
J108
J110
R110
C201
R210
R209
R109
J217
J216
S4
S4-1
S4-2
S4-3
S4-4
S4-5
S4-6
W2
YELL
RED
SLD
WHT
GRY
R/P HEAD
W3
1 2 3 4
WHT
RED
BLK
BLK
S6
MOTOR
SWITCH
MOTOR
BAND
F. ST
F. MO
AM
S1-2
S1-1
SW1
TP5
TP1
TP2
TP4
TP3
L5
C2
C4
L1
C3
R4
IC1
VC1
J5
J6
L6
C1
C27
R1
C21
C5
C6
R5
C7
D1
L3
J54
C30
C11
C8
C9
C10
T1
L4
L2
W1
LED
RCH
LCH
GND
+B 6V
CF1
C12
R9
T2
R11
T3
C13
R10
C14
C29
C26
C18
C17
J3
J4
J2
C24
C28
J51
J1
J52
C20
J53
C22
R12
C23
C16
C25
C15
IC2
TELESCOPIC
ANTENNA
1 2
RED
WHT
A TUNER P.C.B (REP1716A)


TONE
VOLUME
PHONES
AC IN
120V (60Hz)
JK1
(Power Transformer)
C AC DC
S304
D402
C402
D401
C401
F1 125V 2.5A
T401
W401
W6
R
W
VR302-1
VR302
VR302-2
VR301
VR301-2
VR301-1
PHONES
JK2
IC302
LCH
RCH
CP7
W4
(L CH)
TWEETER
1.5cm
WOOFER SPEAKER
10cm, 2.7Ω
(R CH)
WOOFER SPEAKER
10cm, 2.7Ω
TWEETER
1.5cm
BLK
C POWER SUPPLY P.C.B
FOR PC area (REP1715G)
CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do
not touch this portion.
BATTERY 6 "D"
SIZE
BATTERIES 9V
J402
J401
C POWER SUPPLY P.C.B
FOR P area (REP1715A)

■MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
1. Set volume control to maximum. 2. Set tone control to center. 3. Set band switch to AM,FM or FM STEREO. 4. Set function selector to RADIO or TAPE/OFF.	5. Set power source voltage to 9V DC. 6. Output of signal generator should be no higher than necessary to obtain an output reading.

■ AM-IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig.1)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	455kHz 30% Mod. at 400Hz	Point of non-interference.(on/ about 600kHz)	Headphone Jack (32Ω) (Fabicate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	T2(AM IFT)	Adjust for maximum output.

■ AM-RF ALIGNMENT

Fashion a loop of several turns of wire and radiate signal into loop of receiver.	511kHz	Tuning capacitor fully closed.	"	L4 (AM OSC Coil)	Adjust for maximum output.
"	1753kHz	Tuning capacitor fully open.	"	CT1-4 (AM OSC Trimmer)	"
"	600kHz	Tune to signal	"	[*1] L3 (AM ANT Coil)	Adjust for maximum output. Adjust L3 by moving coil along the ferrite core.
"	1500kHz	"	"	CT1-3 (AM ANT Trimmer)	Adjust for maximum output.
[*1] Fix antenna coil with wax after completing alignment.					

■ FM-IF ALIGNMENT

SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 1)	REMARKS
CONNECTIONS	FREQUENCY				
Connect to test point TP1 through ceramic capacitor. Negative side to test point TP2.	10.7MHz (Sweep)	Point of non-interference.(on/ about 90MHz)	Connect vert. amp. of scope to test point TP3. Negative side to test point TP4.	T1 (FM 1st IFT)	Waveform is shown in Fig. 3
"	"	"	"	T3 (FM 2nd IFT)	Waveform is shown in Fig. 4

■ FM-RF ALIGNMENT

Connect to test point TP1 through FM dummy antenna. Negative side to test point TP2.	86.2MHz	Variable capacitor fully closed.	Headphone Jack (32Ω) (Fabicate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	L2 (FM OSC Coil)	[*2] Adjust for maximum output.
	109.2MHz	Variable capacitor fully open.	"	CT1-2 (FM OSC Trimmer)	"
	106.0 MHz	Tune to signal.	"	CT1-1 (FM ANT Trimmer)	"
[*2] Three output responses will be present; proper tuning is the centre frequency.					

■ TAPE SPEED ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCWAT (3 kHz)	Headphone Jack (32Ω) (Fabicate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	Motor VR (As shown in Fig 5)	3000 ± 90 Hz	Playback mode

■ ALIGNMENT POINT

• Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

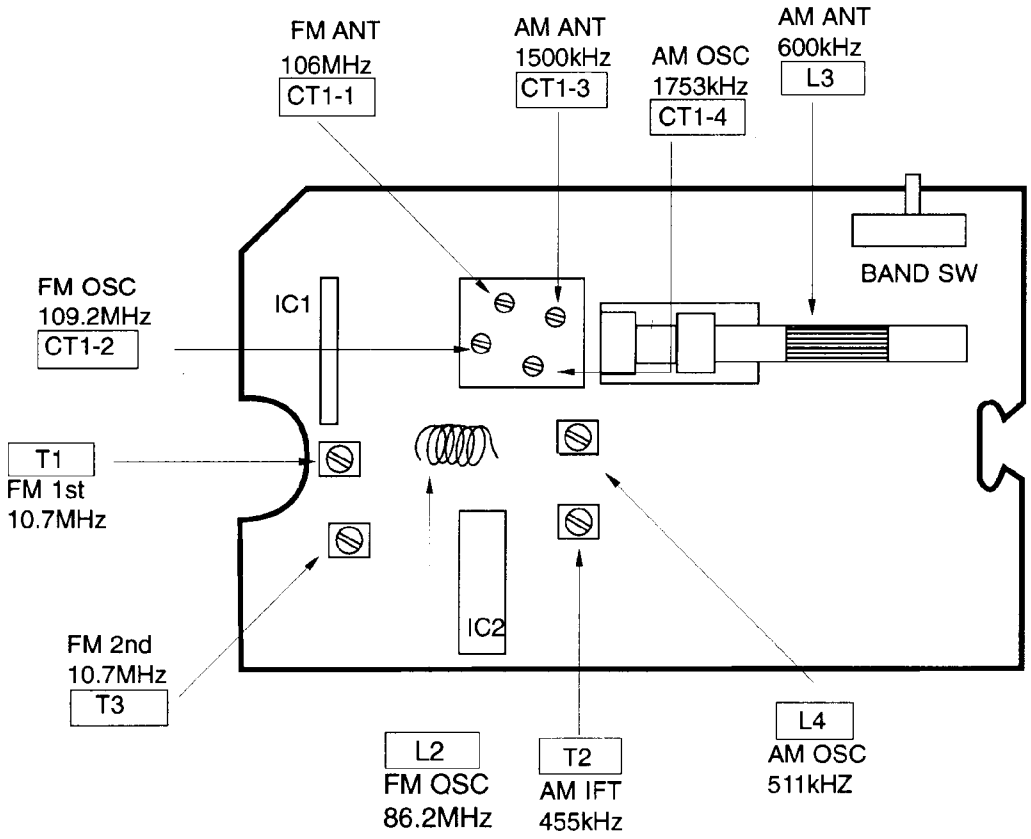


Fig. 1

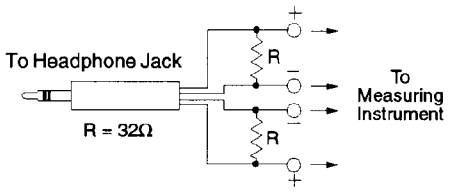


Fig. 2

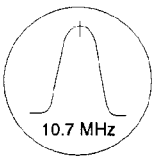


Fig. 3

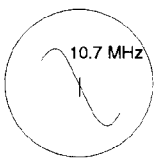
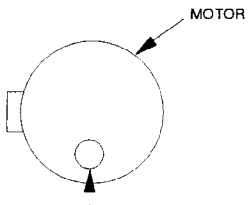


Fig. 4



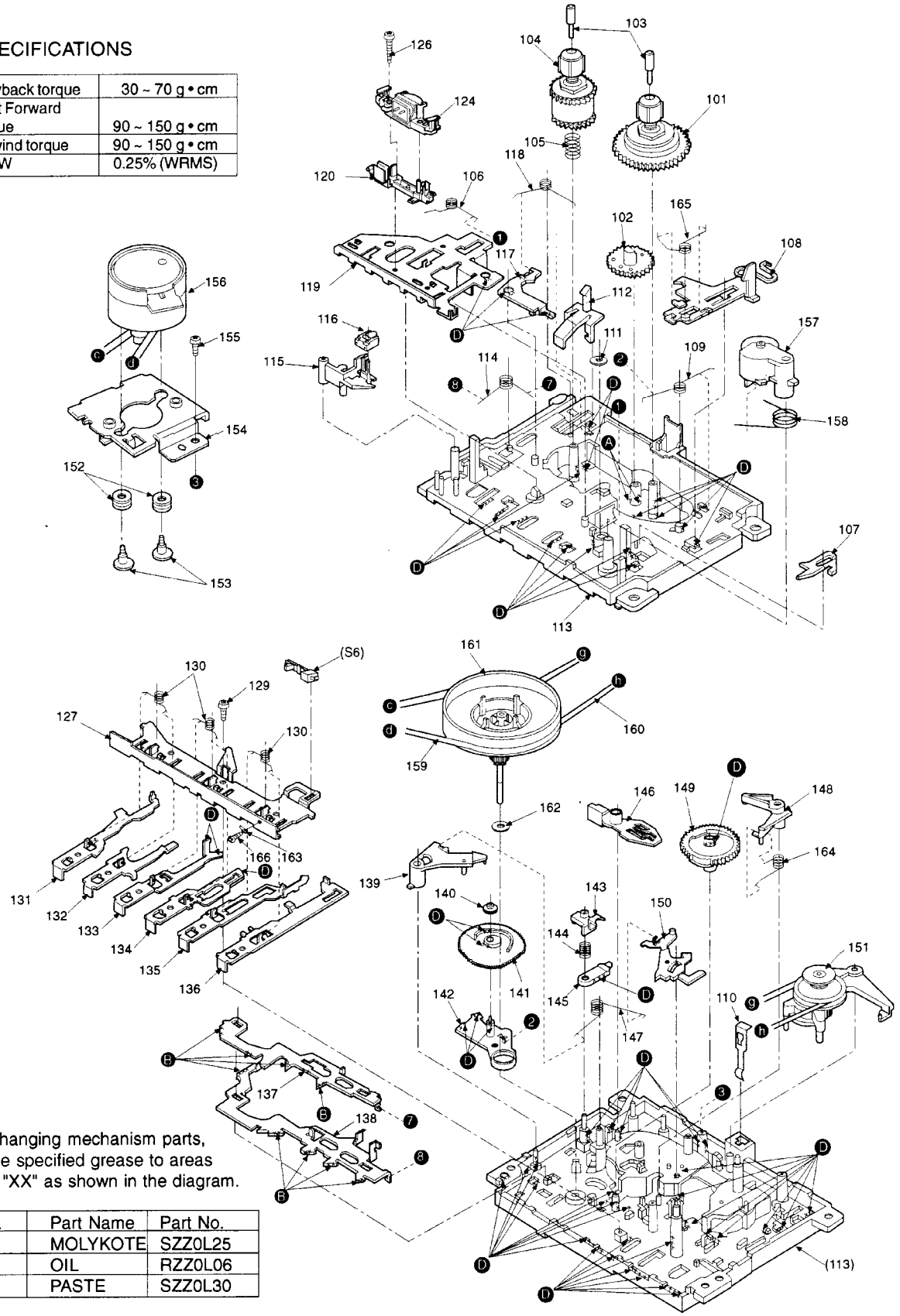
Motor VR

Fig. 5

■ MECHANISM PARTS LOCATION (RAA0903)

SPECIFICATIONS

Playback torque	30 ~ 70 g • cm
Fast Forward torque	90 ~ 150 g • cm
Rewind torque	90 ~ 150 g • cm
WOW	0.25% (WRMS)



Note:
When changing mechanism parts, apply the specified grease to areas marked "XX" as shown in the diagram.

Ref. no.	Part Name	Part No.
Ⓐ	MOLYKOTE	SZZ0L25
Ⓑ	OIL	RZZ0L06
Ⓓ	PASTE	SZZ0L30

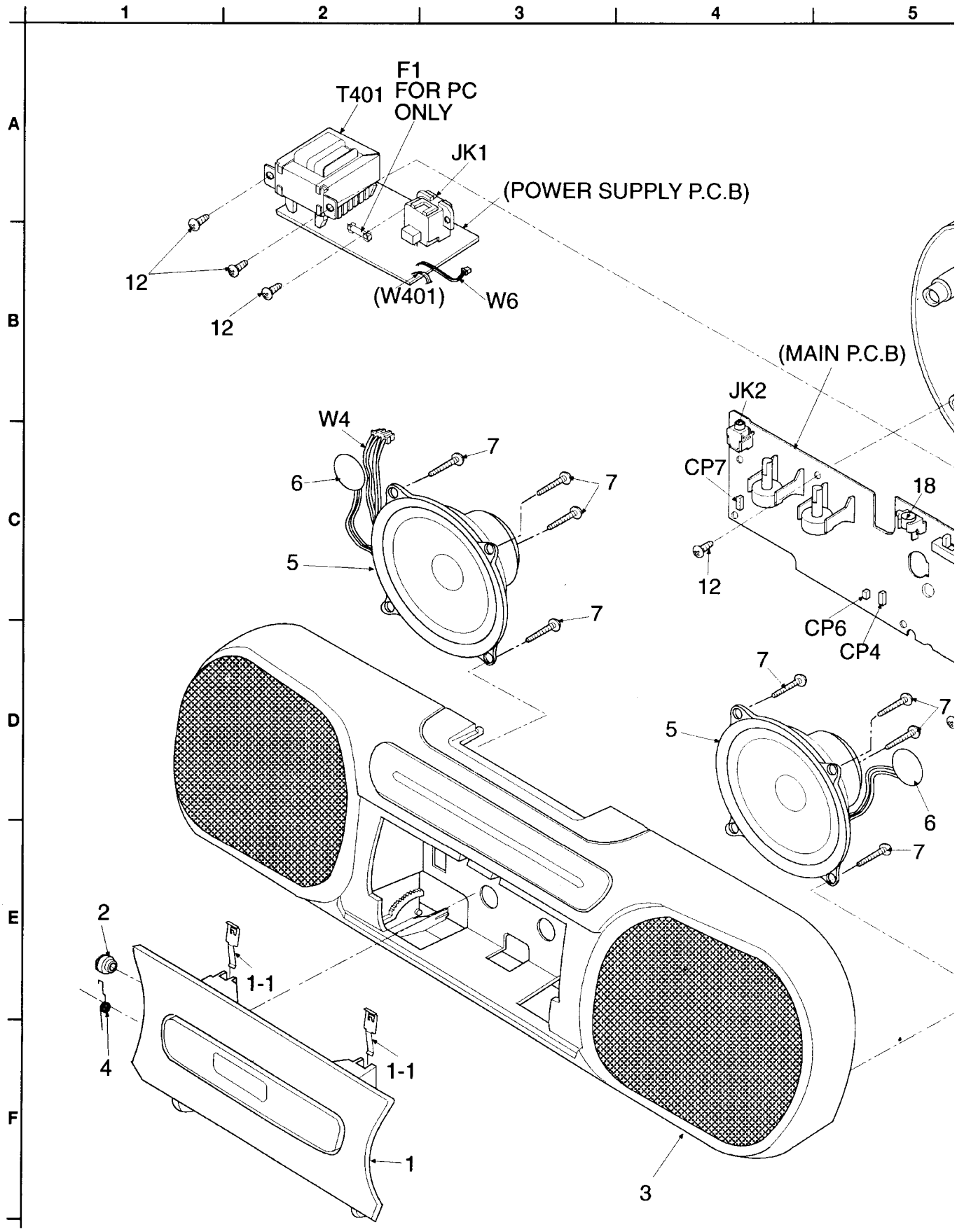
■ MECHANISM PARTS LIST

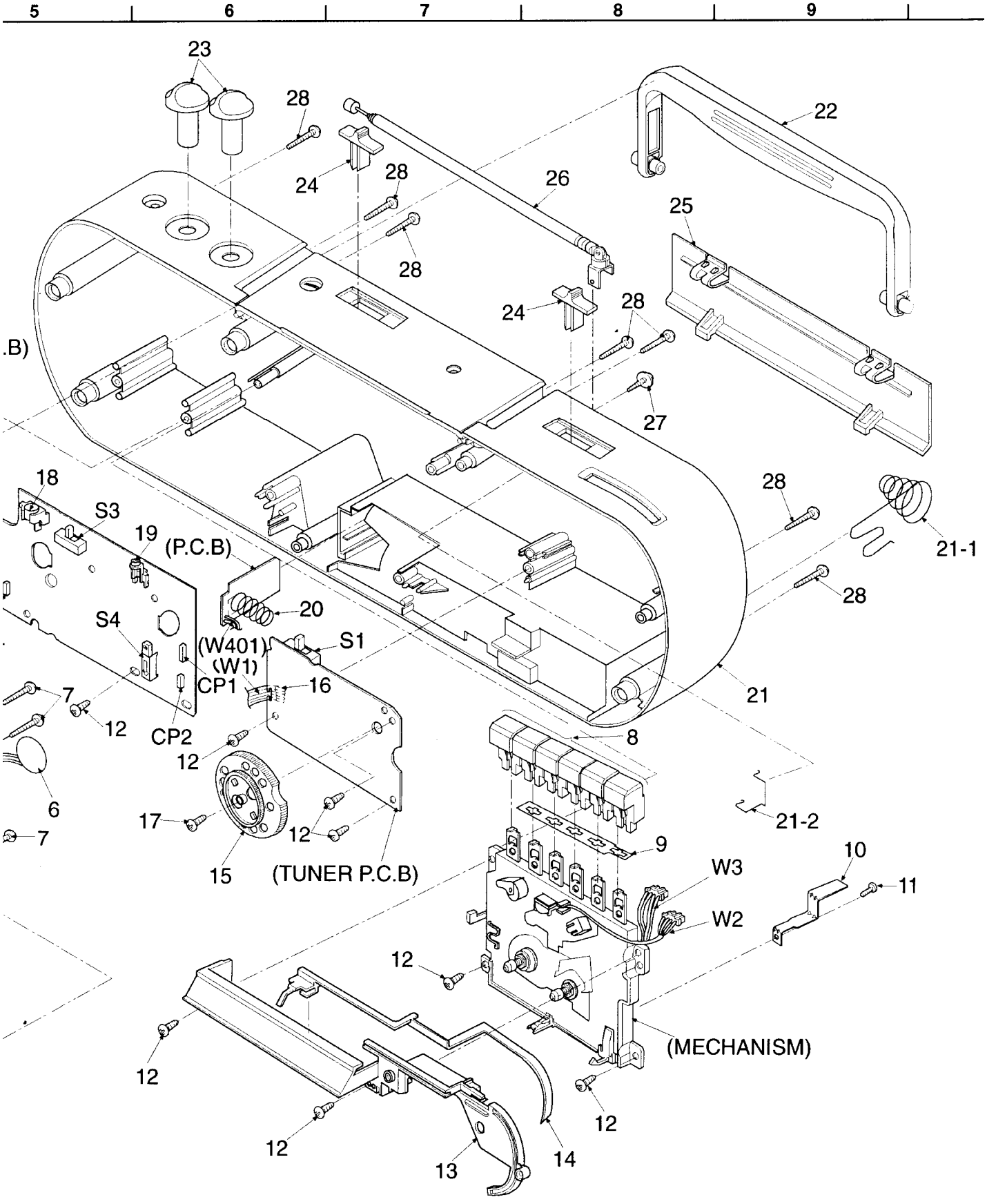
Notes : [M] indicates in Remarks column indicates parts supplied by MESA

Ref No.	Part No.	Part Name & Description	Remarks
		CASSETTE MECHANISM	
101	RXR0004	TAKE UP REEL ASS'Y	[M]
102	RDG0059	FF RELAY GEAR	[M]
103	RMS0055	REEL SHAFT	[M]
104	RXR0005	SUPPLY REEL ASS'Y	[M]
105	RMB0125	SPRING	[M]
106	RMB0047	SPRING	[M]
107	RML0076	EJECT SELECTION LVR	[M]
108	RMM0029	EJECT SLIDE LEVER	[M]
109	RMB0048	SPRING	[M]
110	RMC0061	SPRING	[M]
111	RHW16009	CAPSTAN WASHER	[M]
112	RML0081-1	RECORD SAFETY LEVER	[M]
113	RFU189ZA	MECHANISM BASE ASS'Y	[M]
114	RMB0046-1	SPRING	[M]
115	RML0080	ERASE HEAD ARM	[M]
116	RBR2CY009	ERASE HEAD	
117	RML0116	BRAKE ARM	
118	RMB0109-1	SPRING	[M]
119	RMA0696	HEAD PANEL	[M]
120	RMQ0384	HEAD BASE	[M]
124	RBR4CY016-M	R/P HEAD	[M]
126	XTN2+12F	SCREW	[M]
127	RMA0109	BACK PLATE	[M]
129	XTN2+6J	SCREW	
130	RMB0043-1	SPRING	[M]
131	RMM0027	PAUSE ROD	[M]
132	RMM0026	STOP ROD	[M]
133	RMM0025	FF ROD	[M]
134	RMM0024	REW ROD	[M]
135	RMM0023	PLAY ROD	[M]
136	RMM0028	REC ROD	[M]
137	RML0078	FUNCTION PLATE	[M]
138	RML0077	LOCK PLATE	[M]
139	RML0072	AS RELEASE LEVER	[M]
140	RMR0227	IDLER GEAR BUSH	[M]
141	RDG0057	IDLER GEAR	[M]
142	RML0074	IDLER LEVER	[M]
143	RMR0211	PAUSE BUSH	[M]
144	RMB0053	SPRING	[M]
145	RML0082	PAUSE LEVER	[M]
146	RML0071	SWAY LEVER	[M]
147	RMB0045	AS SPRING	[M]
148	RXL0042	TRIGGLER LEVER ASS'Y	[M]

Ref No.	Part No.	Part Name & Description	Remarks
149	RDK0005	CAM GEAR	[M]
150	RML0073-1	AS PROTECT LEVER	[M]
151	RXP0014	RF CLUTCH ASS'Y	[M]
152	RMG0102	MOTOR RUBBER CUSHION	[M]
153	RHD26002	SCREW	
154	RMA0108	MOTOR BRACKET	[M]
155	XTN26+8J	SCREW	
156	RFM187ZA	MOTOR ASS'Y	[M]
157	RXP0015	PINCH ROLLER ASS'Y	[M]
158	RMB0049	SPRING	[M]
159	RDV0007	BELT,MAIN	[M]
160	RDV0006-1	RF BELT	[M]
161	RXF0012	FLYWHEEL ASS'Y	[M]
162	RHW21008	FLYWHEEL WASHER	[M]
163	RJR0033	EARTH LUG	[M]
164	RMB0044	TRIGGER SPRING	[M]
165	RME0098-2	EJECT SLIDE LEVER SP	[M]
166	XTN2+4F	EARTH LUG SCREW	

■ CABINET PARTS LOCATION




5
6
7
8
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23
28
24
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26
22
25
28
24
28
28
27
.B)
18
S3
19
(P.C.B)
20
S4
(W401)
(W1)
S1
CP1
16
7
12
CP2
12
6
17
12
7
15
(TUNER P.C.B)
28
21-1
28
21
8
21-2
9
10
W3
11
W2
12
(MECHANISM)
12
12
12
13
14

■ REPLACEMENT PARTS LIST

Notes: * Important safety notice:
Components identified by /!\ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area)
Parts without these indications can be used for all areas.
* [M] Indicates in the Remarks columns indicates parts supplied by **MESA.**

Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RKFLFS430PK	CASSETTE LID ASS'Y	[M]
1-1	RUS757ZAA	HALF SPRING	[M]
2	RDG0183-J	DAMPER GEAR	[M]
3	RFKGFS430PK	FRONT CABINET ASS'Y	[M]
4	RMB0347	OPEN SPRING	[M]
5	EAS10P241JA3	SPEAKER	[M]
6	EFBS10D48A1	TWEETER	[M]
7	XTV3+10G	SCREW (SPEAKER)	
8	RGZ0016-K	MECHA BUTTON BLOCK	[M]
9	RMXX0002	SPACER	[M]
10	RMC0220	REC SPRING PLATE	[M]
11	XTN2+3F	SCREW (PLATE)	
12	XTV3+12G	SCREW (PCB & MECH)	
13	RMK0218	DIAL CHASSIS	[M]
14	RGJ0012-W	POINTER	[M]
15	RGX0015-K	TUNER KNOB	[M]
16	RMR0314	CABLE HOLDER (5P)	[M]
17	XYN26+C6	SCREW (TUNING KNOB)	
18	RJM164YA	MIC	[M]
19	RMN0238	LED HOLDER	[M]
20	RMBX0002	SPRING TERMINAL	
21	RFKHFS430PK	BACK CABINET ASS'Y	(P) [M]
21	RFKHFS430PCK	BACK CABINET ASS'Y	(PC) [M]
21-1	RJC91003	+ - BATTERY TERMINAL	[M]
21-2	RJR0112	ANTENNA TERMINAL	[M]
22	RKX0031-K	HANDLE	[M]
23	RGW0186-K	VOLUME TONE KNOB	[M]
24	RBD563ZA-0	FUNCTION BAND KNOB	[M]
25	RKK318ZC-0	BATTERY COVER	[M]
26	XEARR175ED-Y	WHIP ANTENNA	
27	XYN3+F8FY	ANTENNA SCREW	
28	XTV3+20G	CABINET SCREW	
		INTEGRARED CIRCUITS	
IC1	AN7205	IC,RF	
IC2	BA1442	IC,MPX / IF	[M]
IC301	BA3313L	IC,PRE AMP	[M]
IC302	RVILA4108R	IC,AF POWER	/!\
		TRANSISTORS	
Q303	2SC2001KTA	TRANSISTOR	
Q304	2SC1684RTA	TRANSISTOR	
		DIODES	
D1	RVD1SS133TA	DIODE	
D301	LN28RPH	LED	[M]
D302	RVDMTZ6R8BTA	DIODE	
D303	RVD1SS133TA	DIODE	
D304	RVD1SS133TA	DIODE	
D401	RVD1SR35TR	DIODE	
D402	RVD1SR35TR	DIODE	
		VARIABLE RESISTORS	
VR301	EWCUVAF15A54	VR,VOLUME	
VR302	EWCVVAF15D54	VR,TONE	
		VARIABLE CAPACITORS	
VC1	RCV4PCT0V1-A	TRIMMER	[M]
		SWITCHES	
S1	RSS3B45XA-H	SW,BAND	[M]
S3	RSS2D32ZA-H	SW,FUNCTION	[M]
S4	RSP2F001-A	SW,RECORD	[M]
S6	RSH1A003-U	SW,DECK MOTOR	[M]
S304	RJJ1SM02-H	JACK W/SW (JK1)	/!\
		CONNECTORS	
CP1	RJS1A5205	CONNECTOR (5P)	[M]

Ref No.	Part No.	Part Name & Description	Remarks
CP2	RJP4G18ZA	CONNECTOR (4P)	
CP4	RJP4G18ZA	CONNECTOR (4P)	
CP6	RJP2G4YA	CONNECTOR (2P)	
CP7	RJP4G4YA	CONNECTOR (4P)	
		COILS & TRANSFORMERS	
L1	RLQY30S1W	COIL	[M]
L2	RLD4Y53W	OSC COIL	[M]
L3	RLV2C018-0	AM FERRITE ANT	[M]
L4	RL02B105-M	AM OSC COIL	
T1	RLI4B153-M	FM IFT	
T2	RLI2B458-M	AM IFT	
T3	RLI4B153-M	FM IFT	
T301	RL09B17-T	BIAS OSC COIL	
T401	RTP1K1C004-X	POWER TRANSFORMER	[M] ⚠
		CERAMIC FILTERS	
CF1	RVF107WDZT	FM CF	
CF2	RVFSFU455B	AM CF	
		FUSES	
F1	XBA1C25NBAL	FUSE	(PC) [M] ⚠
		FUSE CLIPS	
FC1	EYF52BC	FUSE HOLDER	(PC)
FC2	EYF52BC	FUSE HOLDER	(PC)
		JACKS	
JK1	RJJ1SM02-H	JACK W/SW (S304)	⚠
JK2	RJJ37TK01-C	JACK,PHONE	[M]
		WIRES	
W2	REX0575	WIRE,HEAD TO MAIN	[M]
W3	REX0541	WIRE,MECH TO MAIN	[M]
W4	REX0582	WIRE,SPEAKER TO MAIN	[M]
W6	REX0574	WIRE,POWER TO MAIN	[M]
		PACKING MATERIALS	
P1	RPG1763	GIFT BOX	(P) [M]
P1	RPG1828	GIFT BOX	(PC) [M]

Ref No.	Part No.	Part Name & Description	Remarks
P2	RPH654ZA	MIRAMAT SHEET	[M]
P3	RPN0729	POLYFOAM	[M]
		ACCESSORIES	
A1	RQCB0391	SERVICE CENTER LIST	(P)
A1	RQX9170ZD	SERVICE CENTER LIST	(PC)
A2	RQT2146-P	INSTRUCTION MANUAL	(P) [M]
A2	RFKSFS430PCK	INSTRUCTION MANUAL	(PC) [M]
A3	SJA175-A	AC CORD	[M] ⚠

■ RESISTORS & CAPACITORS

Notes: * Capacitor values are in microfarads (μF) unless specified otherwise, P=Pico-farads (pF) F=Farads
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
* Bracketed indications in Ref. No. columns specify the area (Refer to the first page for area). Parts without these indications can be used for all areas.
* [M] Indicates in the values & remarks column indicates parts supplied by **MESA**

Ref. No.	Part No.	Values & Remarks
	RESISTORS	
R1	ERDS2TJ330T	33 1/4W
R4	ERDS2TJ330T	33 1/4W
R5	ERDS2TJ101T	100 1/4W
R6	ERDS2TJ8R2T	8.2 1/4W
R9	ERDS2TJ101T	100 1/4W
R10	ERDS2TJ103T	10K 1/4W
R11	ERDS2TJ221T	220 1/4W
R12	ERDS2TJ332T	3.3K 1/4W
R106	ERDS2TJ103T	10K 1/4W
R107	ERDS2TJ564T	560K 1/4W
R109	ERDS2TJ222T	2.2K 1/4W
R110	ERDS2TJ123T	12K 1/4W
R111	ERDS2TJ392T	3.9K 1/4W
R112	ERDS2TJ560T	56 1/4W
R113	ERDS2TJ222T	2.2K 1/4W
R116	ERDS2TJ123T	12K 1/4W
R117	ERDS2TJ222T	2.2K 1/4W
R120	ERDS2TJ472T	4.7K 1/4W
R121	ERDS2TJ2R2T	2.2 1/4W
R122	ERDS2TJ101T	100 1/4W
R131	ERDS2TJ682T	6.8K 1/4W
R140	ERDS2TJ223T	22K 1/4W
R206	ERDS2TJ103T	10K 1/4W
R207	ERDS2TJ564T	560K 1/4W
R209	ERDS2TJ222T	2.2K 1/4W
R210	ERDS2TJ123T	12K 1/4W
R211	ERDS2TJ392T	3.9K 1/4W
R212	ERDS2TJ560T	56 1/4W
R213	ERDS2TJ222T	2.2K 1/4W
R216	ERDS2TJ123T	12K 1/4W
R217	ERDS2TJ222T	2.2K 1/4W
R220	ERDS2TJ472T	4.2 1/4W
R221	ERDS2TJ2R2T	2.2 1/4W
R222	ERDS2TJ101T	100 1/4W
R231	ERDS2TJ682T	6.8K 1/4W
R240	ERDS2TJ223T	22K 1/4W
R301	ERDS2TJ222T	2.2K 1/4W
R302	ERDS2TJ471T	470 1/4W
R303	ERDS2TJ222T	2.2K 1/4W
R305	ERDS2TJ471T	470 1/4W
R306	ERDS2TJ101T	100 1/4W
R308	ERDS2TJ561T	560 1/4W
R309	ERDS2TJ333T	33K 1/4W
R310	ERDS2TJ221T	220 1/4W
R311	ERDS2TJ6R8T	6.8 1/4W
R313	ERDS2TJ101T	100 1/4W
R314	ERDS2TJ105T	1M 1/4W
R318	ERDS2TJ471T	470 1/4W
R319	ERDS2TJ680T	68 1/4W
R320	ERDS2TJ222T	2.2K 1/4W
R332	ERDS2TJ104T	100K 1/4W
	CAPACITORS	
C1	ECFR1C223MR	0.022 16V
C2	ECBT1H470J5	47P 50V
C3	ECBT1H180JC5	18P 50V
C4	ECBT1H100J5	10P 50V
C5	ECBT1H102KB5	1000P 50V
C6	ECBT1H102KB5	1000P 50V
C7	ECBT1H4R7KC5	4.7P 50V
C8	ECBT1H150J5	15P 50V
C9	ECBT1H102KB5	1000P 50V
C10	ECBT1H120J5	12P 50V
C11	ECBT1H220JC5	22P 50V
C12	ECFR1C223MR	0.022 16V
C13	ECFR1C223MR	0.022 16V
C14	ECBT1H221KB5	220P 50V
C15	ECEA1HU010B	1 50V
C16	ECBT1C682MR5	6800P 16V
C17	ECEA1EU100B	10 25V
C18	ECEA1EU100B	10 25V
C20	ECEA0JU101B	100 6.3V
C21	ECBT1H102KB5	1000P 50V
C22	ECFR1C473MR	0.047 16V
C23	ECEA1HUR22B	0.22 50V
C24	ECEA1EU100B	10 25V
C25	ECBT1C103MS5	0.01 16V
C26	ECFR1C223MR	0.022 16V
C27	ECBT1H331KB5	330P 50V
C28	ECEA1HU010B	1 50V
C29	ECEA1HU010B	1 50V
C30	ECBT1H5R6KC5	5.6P 50V
C101	ECBT1C152MR5	1500P 16V
C102	ECBT1C152MR5	1500P 16V
C103	ECBT1H331KB5	330P 50V
C104	ECEA1CU470B	47 16V
C105	ECFR1C333KR	0.033 16V
C106	ECEA1CU100B	10 16V
C108	ECFR1C183MR	0.018 16V
C109	ECEA1CU100B	10 16V
C110	ECBT1C222MR5	2200P 16V
C111	ECEA0JU101B	100 6.3V
C113	ECBT1C103MS5	0.01 16V
C114	ECEA1CU470B	47 16V
C115	ECEA1AU471B	470 10V
C116	ECFR1C683MR	0.068 16V
C117	ECFR1C473MR	0.047 16V
C131	ECFR1C473MR	0.047 16V
C201	ECBT1C152MR5	1500P 16V
C202	ECBT1C152MR5	1500P 16V
C203	ECBT1H331KB5	330P 50V
C204	ECEA1CU470B	47 16V
C205	ECFR1C333KR	0.033 16V
C206	ECEA1CU100B	10 16V
C208	ECFR1C183MR	0.018 16V
C209	ECEA1CU221B	220 16V
C210	ECBT1C222MR5	2200P 16V
C211	ECEA0JU101B	100 6.3V
C213	ECBT1C103MS5	0.01 16V
C214	ECEA1CU470B	47 16V
C215	ECEA1AU471B	470 10V
C216	ECFR1C683MR	0.068 16V
C217	ECFR1C473MR	0.047 16V
C231	ECFR1C473MR	0.047 16V
C301	ECEA1HU0R1B	0.1 50V
C302	ECFR1C473MR	0.047 16V
C303	ECEA1CU100B	10 16V
C304	ECEA0JU221B	220 6.3V
C305	ECEA1HU3R3B	3.3 50V
C306	ECEA1AU330B	33 10V
C310	ECQP1332JZ3	3300P 100V
C311	ECEA0JU221B	220 6.3V
C312	ECFR1C223MR	0.022 16V
C313	ECBT1C103MS5	0.01 16V
C315	ECBT1C103MS5	0.01 16V
C316	ECEA1AU221B	220 10V
C317	ECEA1CU470B	47 16V
C318	ECBT1C103MS5	0.01 16V
C319	ECA1CM222EV	2200 16V [M]
C401	ECKR1H103ZF5	0.01 50V
C402	ECKR1H103ZF5	0.01 50V